

GP 2635
3
RS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED
APR 24 2001
Technology Center 2600

In re Patent Application of

ELY

Atty. Ref.: 1179-46

Serial No. 09/776,908

Group: 2635

Filed: February 6, 2001

Examiner:

For: POSITION SENSOR

* * * * *

April 20, 2001

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

The Examiner's attention is drawn to the attached Form PTO-1449 and a copy of references cited therein from possibly related cases:

- (1) Ely et al, Serial No. 09/111,885, filed July 8, 1998, POSITION DETECTOR; (division of Serial No. 09/627,423 filed July 27, 2000);
- (2) Ely et al, Serial NO. 09/220,354, filed December 24, 1998, SIGNAL PROCESSING APPARATUS AND METHOD;
- (3) Dames et al, Serial No. 09/424,706, filed November 29, 1999, TRANSDUCED AND METHOD OF MANUFACTURE
- (4) Ely et al, Serial No. 09/700,418, filed November 15, 2000, POSITION SENSOR;
- (5) England et al, Serial No. 09/509,651, filed June 8, 2000, MOTOR CONTROL SYSTEM;

(6) Ely et al, Serial No. 09/529,387, filed June 8, 2000, POSITION SENSOR;

(7) Ely et al, Serial No. 09/627,423, filed July 27, 2000, POSITION DETECTOR; (division of Serial No. 09/111,885, filed July 8, 1998 which is a CIP of Serial 08/737,505, filed December 12, 1996, now Patent No. 5,815,091);


(8) Ely et al, Serial No. 09/754,218, filed January 5, 2001, POSITION SENSOR;

Consideration and return of a fully initialed PTO-1449 is requested. An Information Disclosure Statement fee for this stage of prosecution, if necessary, is attached.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:


Larry S. Nixon
Reg. No. 25,640

LSN:vc
1100 North Glebe Road, 8th Floor
Arlington, VA 22201-4714
Telephone: (703) 816-4000
Facsimile: (703) 816-4100

RECEIVED
APR 24 2001
Technology Center 2600

INFORMATION DISCLOSURE
CITATION

ATTY. DOCKET NO.

1179-46

APPLICANT

ELY

FILING DATE

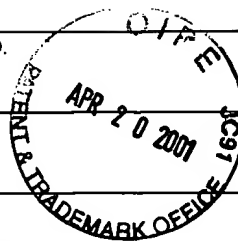
6 February 2001

SERIAL NO.

09/776,908

GROUP

(Use several sheets if necessary)



RECEIVED
APR 24 2001
Technology Center 2600

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5136125	8/92	Russell			
	4697144	9/87	Howbrook			
	4704501	11/87	Taguchi et al			
	4577057	3/86	Blessner			
	3482242	12/69	Hargrove			
	4255617	3/81	Carau, Sr., et al			
	5619431	4/97	Oda			
	4150352	4/79	Pomella et al			
	3895356	7/75	Kraus			
	4593245	6/86	Vierti et al			
	4065850	1/78	Burr et al			
	4094572	6/78	Burr et al			
	4097684	6/78	Burr			
	4642321	2/87	Schoenberg et al			
	4693778	9/87	Swiggett et al			
	4711026	12/87	Swiggett et al			
	5625239	4/97	Persson et al			
	5082286	1/92	Ryan et al			
	5088928	2/92	Chan			

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
0716390	6/96	Europe			
0537458	4/93	Europe			
0772149	5/97	Europe			
0218745	4/87	Europe			
WO 95/31696	11/95	WIPO			
2042183 A	9/80	Great Britain			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	PATENT ABSTRACTS OF JAPAN, Vol. 010, No. 009, (P-420), 14 January 1986 & JP 60 165512A (Toshiba KK), 28 August 1985
	Klatt, "Phase of Digital Data Fixes Shaft Angle", ELECTRICAL DESIGN NEWS, Vol. 16, No. 12, 15 June 1971, pages 53-56, XP002045871
	PATENT ABSTRACTS OF JAPAN, Vol. 15, No. 37 (P-1159), 29 January 1991 & JP 02 275314 A (OMRON TATEISI ELECTRON CO), 9 November 1990
	PATENT ABSTRACTS OF JAPAN, Vol. 10, No. 32 (E-379), 7 February 1986 & JP 60 189231 A (MATSUSHITA DENKI SANGYO KK, 26 September 1985
	McDonnel, "The Use of Inductosyn to Digital Converters in Linear Control Systems", AUTOMATION, Vol. 10, No. 11-12, November 1975-December 1975, pages 31-32

*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE
CITATION

ATTY. DOCKET NO.

SERIAL NO.

1179-46

09/776,908

APPLICANT

ELY

FILING DATE

GROUP

(Use several sheets if necessary)

6 February 2001

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5129654	7/92	Bogner			
	5188368	2/93	Ryan			
	5381091	1/95	Kobayashi et al			
	5434372	7/95	Lin			
	2145742	1/39	Wechsung			
	2942212	6/60	Mynall			
	3219956	11/65	Newell et al			
	3297940	1/67	Mulligan et al			
	3647963	3/72	Bailey			
	3851242	11/74	Ellis			
	3898635	8/75	Kulterman			
	3906436	9/75	Kurauchi et al			
	3962663	6/76	Visser			
	4005396	1/77	Fujiwara et al			
	4081603	3/78	Davis et al			
	4092852	6/78	Fowler et al			
	4156192	5/79	Schedrovitsky et al			
	4210775	7/80	Rodgers et al			
	4341385	7/82	Doyle et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
2141235A	12/84	Great Britain			
0657917 A1	6/95	Europe			
0675581 A1	10/95	Europe			
0709648 A2	5/96	Europe			
1452132	10/76	Great Britain			
1604824	12/81	Great Britain			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	ELECTRONICS LETTERS, Vol. 11, No. 1, 9 January 1975, pages 5-6, Gordon, "Digital xy Position Indicator Using Walsh Functions
	Pulle et al, "A New Magnetoresistive Based Sensor for Switched Reluctance Drives" PROCEEDINGS OF THE ANNUAL POWER ELECTRONICS SPECIALISTS CONFERENCE (PECS), Toledo, June 29 - July 3, 1992, Vol. 2, No. CONF, 23, 29 June 1992, pages 839-843, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.

1179-46

APPLICANT

ELY

FILING DATE

6 February 2001

SERIAL NO.

09/776,908

GROUP



008
RECEIVED
APR 24 2001
Technology Center 2600

U.S. PATENT DOCUMENTS

*EXAMINER					FILING DATE		
INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
		4423286	12/83	Bergeron			
		4482784	11/84	Whetstone			
		4504832	3/85	Conte			
		4507638	3/85	Brosh			
		4532376	7/85	Rockwell			
		4609776	9/86	Murakami et al			
		4697244	9/87	Murakami et al			
		4709209	11/87	Murakami et al			
		4711977	12/87	Miyamori et al			
		4723446	2/88	Saito et al			
		4734546	3/88	Landmeier			
		4737698	4/88	McMullin et al			
		4786765	11/88	Yamanami et al			
		4848496	7/89	Murakami et al			
		B1 4878553	9/97	Yamanami et al			
		4878553	11/89	Yamanami et al			
		4893077	1/90	Auchterlonie			
		4902858	2/90	Yamanami et al			
		4985691	1/91	Pulyer et al			

FOREIGN PATENT DOCUMENTS

POWER OF ATTORNEY DOCUMENTS							TRANSLATION	
DOCUMENT			DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
		2012431 A	7/79	United Kingdom				
		2021273 A	11/79	Great Britain				
		2059593 A	4/81	Great Britain				
		2064125 A	6/81	Great Britain				
		2074736 A	11/81	Great Britain				
		2103943 A	3/83	Great Britain				
		1325017	3/62	France				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

*Examiner	Date Considered	

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE CITATION

ATTY. DOCKET NO.

1179-46

APPLICANT

ELY

FILING DATE

6 February 2001

SERIAL NO.

09/776,908

GROUP

08
RECEIVED
APR 24 2001
Technology Center 2600

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER							FILING DATE
INITIAL	DOCUMENT NUMBER		DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
		4999461	3/91	Murakami et al			
		5013047	5/91	Schwab			
		5028745	7/91	Yamanami et al			
		5041785	8/91	Bogaerts et al			
		4891590	1/90	Hammel et al			
		3772587	11/97	Ferrand et al			
		3812481	5/74	Stednitz			
		6124708	9/00	Dames			
		4820961	4/89	McMullin			
		4014015	3/77	Gundlach			
		5406155	4/95	Persson			
		4868443	9/89	Rossi			
		5486731	1/96	Masaki et al			
		5187389	1/93	Schalk			
		5693993	12/97	Ito et al			
		5783940	7/98	Kolomeitsev			
		2867783	1/59	Childs			
		4223300	4/97	Wiklund			
		4425511	1/84	Borsh			

FOREIGN PATENT DOCUMENTS

DOCUMENT IDENTIFICATION							TRANSLATION	
DOCUMENT			DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
		1134848	8/62	Germany				
		3500121 A1	7/86	Germany				
		3620412 A1	12/87	Germany				
		0159191 A2	10/85	European				
		0182085 A3	5/86	European				
		0182085 A2	5/86	European				
		0209513 A1	6/86	European				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

*Examiner	Date Considered	

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

ATTY. DOCKET NO.

1179-46

APPLICANT

ELY

FILING DATE

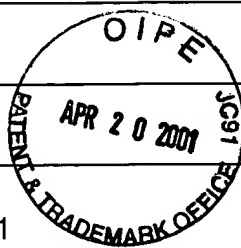
6 February 2001

SERIAL NO.

09/776,908

GROUP

(Use several sheets if necessary)



RECEIVED
APR 24 2001
Technology Center 2600

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

